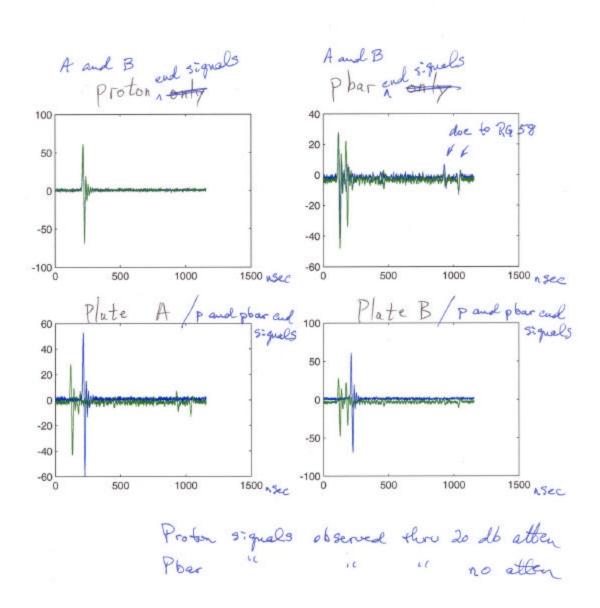
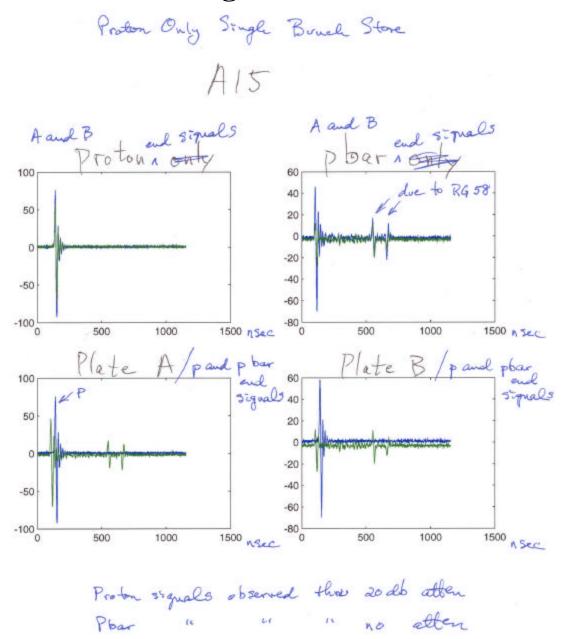
#### **Beam Signals From A14**

Proton Only Single Bouch Store A14



All signals through 70 MHz low-pass filters.

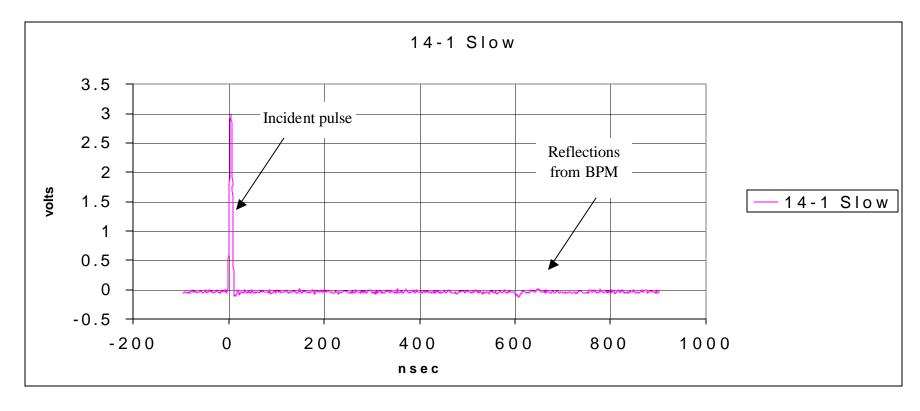
## **Beam Signals From A15**



All signals through 70 MHz low-pass filters.

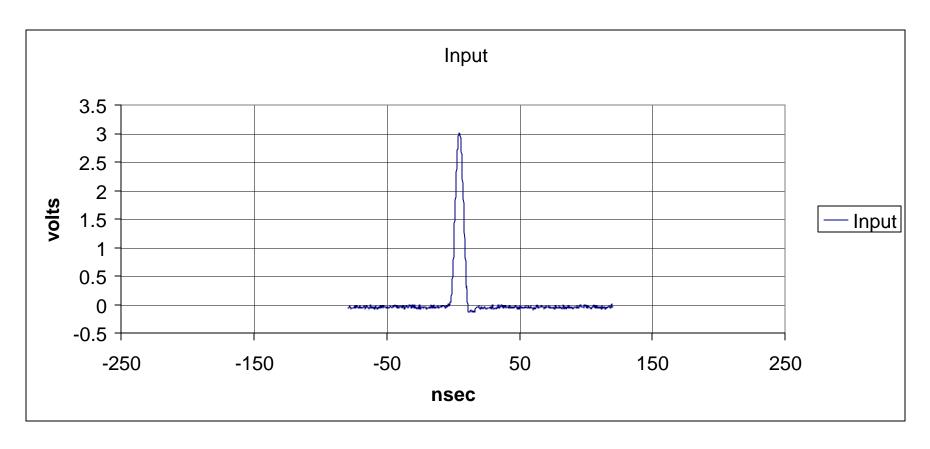
## TDR Tests of A14 and A15 Signal Paths

Test pulse injected into Pbar cable in service building and reflections observed.

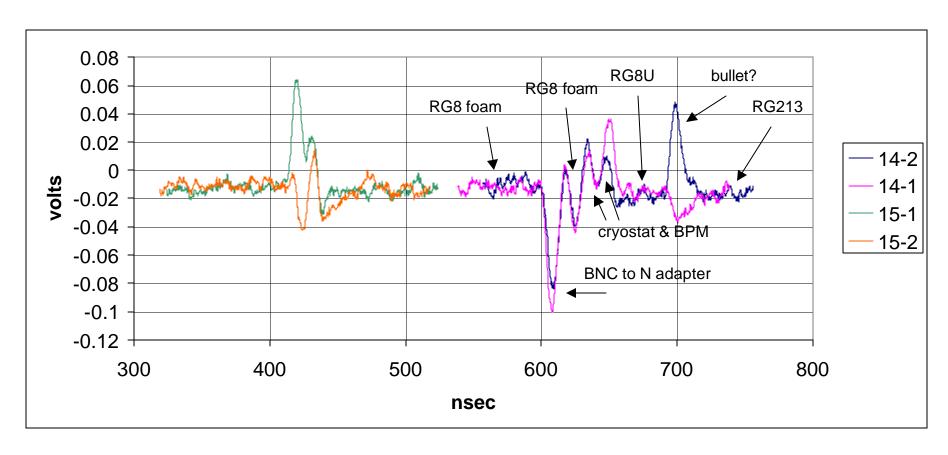


A14-1 path showing injected pulse and reflections.

# **Test Pulse**



#### **Reflections From Near BPM**



A14 had multiple extensions and adapters in tunnel; from pbar foam RG8 cable to BNC-to-N adapter to 12' foam RG8 jumper to cryostat pbar signal feed-through through cryostat cables and BPM to proton signal cryostat feed-through to 20' RG8/U extension to RG213 cable to service building.